

Bertrand M. Roehner

# Patterns of Speculation

A Study in  
Observational  
Econophysics

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# Patterns Of Speculation A Study In Observational Econophysics

**Liyong Dong**



## **Patterns Of Speculation A Study In Observational Econophysics:**

Patterns of Speculation Bertrand M. Roehner, 2002-05-02 The main objective of this 2002 book is to show that behind the bewildering diversity of historical speculative episodes it is possible to find hidden regularities thus preparing the way for a unified theory of market speculation Speculative bubbles require the study of various episodes in order for a comparative perspective to be obtained and the analysis developed in this book follows a few simple but unconventional ideas Investors are assumed to exhibit the same basic behavior during speculative episodes whether they trade stocks real estate or postage stamps The author demonstrates how some of the basic concepts of dynamical system theory such as the notions of impulse response reaction times and frequency analysis play an instrumental role in describing and predicting speculative behavior This book will serve as a useful introduction for students of econophysics and readers with a general interest in economics as seen from the perspective of physics

## **Quantum Field Theory for Economics and Finance** B. E. Baaquie, 2018-08-23

This book provides an introduction to how the mathematical tools from quantum field theory can be applied to economics and finance Providing a range of quantum mathematical techniques for designing financial instruments it demonstrates how a range of topics have quantum mechanical formulations from asset pricing to interest rates

*Driving Forces in Physical, Biological and Socio-economic Phenomena* Bertrand M. Roehner, 2007-05-31 a multi disciplinary 2007 book on network theory for graduate students and researchers in sociology and econophysics

## **Mechanistic Explanations in Physics and Beyond** Brigitte Falkenburg, Gregor Schiemann, 2019-08-28

This volume offers a broad philosophical discussion on mechanical explanations Coverage ranges from historical approaches and general questions to physics and higher level sciences The contributors also consider the topics of complexity emergence and reduction Mechanistic explanations detail how certain properties of a whole stem from the causal activities of its parts This kind of explanation is in particular employed in explanatory models of the behavior of complex systems Often used in biology and neuroscience mechanistic explanation models have been often overlooked in the philosophy of physics The authors correct this surprising neglect They trace these models back to their origins in physics The papers present a comprehensive historical methodological and problem oriented investigation The contributors also investigate the conditions for using models of mechanistic explanations in physics The last papers make the bridge from physics to economics the theory of complex systems and computer science This book will appeal to graduate students and researchers with an interest in the philosophy of science scientific explanation complex systems models of explanation in physics higher level sciences and causal mechanisms in science

An Introduction to Socio-Finance Jørgen Vitting Andersen, Andrzej Nowak, 2013-12-11 This introductory text is devoted to exposing the underlying nature of price formation in financial markets as a predominantly sociological phenomenon that relates individual decision making to emergent and co evolving social and financial structures Two different levels of this sociological influence are considered First we examine how price formation results from the social dynamics of interacting

individuals where interaction occurs either through the price or by direct communication Then the same processes are revisited and examined at the level of larger groups of individuals In this book models of both levels of socio finance are presented and it is shown in particular how complexity theory provides the conceptual and methodological tools needed to understand and describe such phenomena Accordingly readers are first given a broad introduction to the standard economic theory of rational financial markets and will come to understand its shortcomings with the help of concrete examples Complexity theory is then introduced in order to properly account for behavioral decision making and match the observed market dynamics This book is conceived as a primer for newcomers to the field as well as for practitioners seeking new insights into the field of complexity science applied to socio economic systems in general and financial markets and price formation in particular

**Risk Management Post Financial Crisis** Jonathan A. Batten, Niklas F. Wagner, 2014-10-03 Risk Management Post Financial Crisis A Period of Monetary Easing provides further insights into postcrisis developments in the global economic and financial environment including advances in measuring and reporting risk and liquidity Contributions come from leading banks international organisations and worldrenowned universities

Financial Market Bubbles and Crashes, Second Edition Harold L. Vogel, 2018-08-16 Economists broadly define financial asset price bubbles as episodes in which prices rise with notable rapidity and depart from historically established asset valuation multiples and relationships Financial economists have for decades attempted to study and interpret bubbles through the prisms of rational expectations efficient markets and equilibrium arbitrage and capital asset pricing models but they have not made much if any progress toward a consistent and reliable theory that explains how and why bubbles and crashes evolve and can also be defined measured and compared This book develops a new and different approach that is based on the central notion that bubbles and crashes reflect urgent short side rationing which means that as such extreme conditions unfold considerations of quantities owned or not owned begin to displace considerations of price

*Complex Systems in Finance and Econometrics* Robert A. Meyers, 2010-11-03 Finance Econometrics and System Dynamics presents an overview of the concepts and tools for analyzing complex systems in a wide range of fields The text integrates complexity with deterministic equations and concepts from real world examples and appeals to a broad audience

**Journal of Economic Literature** ,2004 Acta Physica Polonica ,2006

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*The Selfcreating Mind* Graeme Donald Snooks, 2007-03-26 In this ambitious and imaginative work noted social and biological theorist Graeme Donald

Snooks explores the origin development and role of the self conscious mind The Selfcreating Mind which displaces the mind hypothesized by psychoanalytic Darwinian and complexity theorists provides a new perspective on human nature the origin nature and purpose of the self conscious mind the reasons for its continuing breakdown in a significant minority of the population and on the surest road to mental recovery Chinese Physics Letters ,2004 American Journal of Physics ,2002 **The British National Bibliography** Arthur James Wells,2002 *American Book Publishing Record* ,2002 **Wu li** ,2004 *Books In Print 2004-2005* Ed Bowker Staff,Staff Bowker, Ed,2004 Hidden Collective Factors in Speculative Trading Bertrand M. Roehner,2001 This book contains a unified mathematical theory of speculation Besides analysing stock markets the book considers a wide range of speculative markets such as real estate commodities postage stamps and antiquarian books Various regularities are discussed For instance during a speculative episode the price of expensive items increases more than the price of less expensive items Such regularities pave the way for a mathematical theory of speculation Being mainly empirical the book is easy to read and does not require technical prerequisites in finance economics or mathematics

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